

ABSTRACT

A haptic feedback control device, such as a handheld remote control or handheld game controller, for controlling a graphical object within a graphical display and for outputting forces to a user. A housing includes a button, wherein the user engages the button with a finger. The button is depressible along a degree of freedom by the user. An actuator applies forces to the user through the button along the degree of freedom. A sensor detects displacement of the button along the degree of freedom when the button is depressed by the user. A process, local to the device, controls the actuator to generate the forces upon the button in the degree of freedom to provide a tactile sensation to the user contacting the button.

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